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TECHNOLOGIES FOR A NEW AGENCY ERA



Systems Engineering Group
Office of Data Processing

25X1

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AGENDA

- o Introduction
- o Current Environment
- o Electronic Mail
- o New Technology
- o New Developments in the Agency
- o Implications of Technology
- o Cautions (Security)
- o Conclusions

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INTRODUCTION

o Caveats

- ODP Perspective
- Perspective
- Naive view of field
- "Information Factory"

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ELECTRONIC MAIL (AIM)

- o Document Handling

- Creation, Routing, Storage,
Sharing, Searching, Reference, etc.

- o Agency Model

- FROM, THRU, CC, etc.

- Security

- o Models, "Aliases"

- o Forms

- o Social Aspects

- Universal

- "Conferences"

- Non-simultaneous

- Big Brother

- Electronic Junk Mail

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CURRENT ENVIRONMENT

Headquarters

o Computer Centers

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- Northside
- Special
- (very special)

o Services

- Batch
- Timesharing
- Data Base Management
- Word Processing (WANG)
- Electronic Mail (AIM)

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CURRENT HQ ENVIRONMENT

- o Dual Cultures
 - Delta Data
 - Wang word processors
- o Networking
- o Printing

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FIELD COMPUTING ENVIRONMENT

- o Teletype (M28, etc.)
- o Craft
- o Wang PC's

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NEW TECHNOLOGY

Personal Computers

- o **Spread Sheet**
- o **Word Processing**
- o **Database Management**
- o **Graphics**
- o **Outliners**
- o **Communications**
 - **Terminal Emulation**
 - **Mainframe/Micro Connection**
 - **"Cooperative Processing"**

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NEW TECHNOLOGY

o **Sophisticated Workstations**

- Golden Tiger

- NPIC Sun

o **Local Area Networks**

o **Mass Storage (Optical Disks)**

o **Electronic Hardcopy**

Wang PIC

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o **Packet Switched Communications**

o **Non-impact Printing**

o **Wang Developments**

o **Text Search**

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NEW DEVELOPMENTS

SAFE

- o Cable Reception
- o Document Storage
- o Private Indexing
- o Text Search
- o Word Processing (HBWP)
- Finished Intelligence
- o Electronic Mail
- o Integration

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NEW DEVELOPMENTS

ALLSTAR Upgrade

- o **SAFE**
- o **Searches**
- o **Security**

New Administrative Systems

- o **Logistics**
- o **Finance**
- o **Personnel**
- o **Security**

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NEW DEVELOPMENTS

Mercury

- o x.25 Packet Switch
- o Datex Replacement
- o Automated message switch
- o Universal Interface
- o HQ Terminals in Field
Cable Network
- o MHF
- o OC/ODP Connection
- o Outbound Cables

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NEW DEVELOPMENTS

New Building Initiatives

o New Headquarters Communications

o New Terminal

Terminal

Word Processor

Personal Computer

Standard

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IMPLICATIONS OF TECHNOLOGICAL CHANGE

- o Field and Headquarters "closer"
- o More "unofficial" communications
(like secure voice)
- o Data entry/search against Headquarters files
- o Headquarters backup
Faster "burnout"
- o Elimination of rekeying
- o Reduced administrative manpower (mode?)

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CAUTIONS

- o Expense
- o Politics
 - (Headquarters intrusion)
- o Security
- o Loss of "command" authority
- o Poor Emergency Posture

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CONCLUSIONS

- o Office Automation is here
- o Major field change is Craft/Communications
- o Major HQ change is SAFE/PC
- o Need to plan for integration of Field/Hq
- o Slow Evolution
- o Culture Shock

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